

6.4 & 6.6 Trig. Form of Complex Numbers (key-odds)

1. Point is in 4th quadrant

3. point is on the real axis (x-axis) at -9

5. $4\sqrt{2}(\cos 315^\circ + i \sin 315^\circ)$

7. $\sqrt{3}(\cos 90^\circ + i \sin 90^\circ)$

9. $5(\cos 53^\circ + i \sin 53^\circ)$

11. $3i$

13. $6i$ (show work!)

15. $\sqrt{3} + i$

17. Show work! $z_1 z_2 = -40i$, $\frac{z_1}{z_2} = \frac{-4}{5}$

19. Show work! $z_1 z_2 = -18 + 14i$, $\frac{z_1}{z_2} = .46 + 1.7i$

21. 4